

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An X-ray detection device for foreign matter (1, 40) which irradiates an examination subject article being conveyed in a conveyance path with X-rays at a predetermined detection position and which determines, on the basis of the transmission amount of X-rays that have penetrated through the examination subject article, whether or not foreign matter is mixed in, characterized in that the X-ray detection device comprises:

a test-piece table (17, 49) which, being outside the conveyance path, holds a test piece (21) for checking sensitivity of detecting the mixed-in foreign matter and which is movably installed so that it can pass the detection position along a moving direction of the examination subject article moving in the conveyance path; and

means (19, 43) for moving the test-piece table along the moving direction at substantially the same speed as a moving speed of the examination subject article.

2. (Original) The X-ray detection device for foreign matter according to claim 1, characterized in that:

the conveyance path is provided inside a pipe (7) in which the examination subject article moves, and

the test-piece table (17, 49) is configured such that, in a section of a prescribed length of the conveyance path including the detection position, the table can move substantially in parallel with the moving direction of the examination subject article.

3. (Original) The X-ray detection device for foreign matter according to claim 1, characterized in that:

the conveyance path is provided as a moving range for the examination subject article placed on a conveyor; and

the test-piece table (17, 49) is configured such that, in a section of a prescribed length of the conveyance path including the detection position, the table can move substantially in parallel with the moving direction of the examination subject article.

4. (Original) The X-ray detection device for foreign matter (1) according to claim 1, characterized in that the means for moving is an elastic body (19).

5. (Original) The X-ray detection device for foreign matter (40) according to claim 1, characterized in that the means for moving is a motor (43).

6. (Original) The X-ray detection device for foreign matter (1, 40) according to claim 1, characterized in that the means for moving is an air cylinder.

7. (Currently Amended) The X-ray detection device for foreign matter (1, 40) according to ~~one of claims 5 and 6~~ claim 5, characterized in that:

the moving speed of the examination subject article is arbitrarily settable, and

the moving speed of the test-piece table (17, 49) is set according to the set moving speed of the examination subject article.